RAVAMID® B STL BK45

PA6 Ravago Group

Product Texts

Polyamide 6 black containing recycled material, high impact modified, also available UV stabilized (UV).

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	**0.01**	mm/mm	ASTM D 955
Mold Shrinkage, TD	**0.0106**	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	**40**	MPa	ISO 527
Stress at break	**30**	MPa	ISO 527
Strain at break	**20**	%	ISO 527
Flexural modulus, 23°C	**1900**	MPa	ISO 178
Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**14**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**10.5**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**15**	kJ/m²	ISO 180/1A
Izod notched impact strength	**10.5**	kJ/m²	ISO 180/1A
Temperature	**-23**	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**50**	°C	ISO 75-1/-2
Vicat softening temperature, B	**190**	°C	ISO 306
Burning behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.2**	mm	-
Glow Wire Flammability Index (GWFI)	**650**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**2**	mm	-

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.25**	%	Sim. to ISO 62
Density	**1090**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**75**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Processing humidity	**≤0.12**	%	-
Melt temperature	**240 - 270**	°C	-
Mold temperature	**70 - 90**	°C	-
Zone 1	**220 - 230**	°C	-
Zone 2	**230 - 245**	°C	-
Zone 3	**250 - 260**	°C	-
Nozzle temperature	**250 - 260**	°C	-
Screw speed	**50 - 80**	rpm	-
Back pressure	**0.4 - 0.8**	MPa	-
Holding pressure	**6 - 8**	MPa	-

Characteristics

Processing
Injection Molding

Certifications
Recycled Resin Content

Delivery form
Black

Regional Availability
Europe

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather